a registered area search means for referring to the registered area storage means and thereby searching for the registered areas of a location-limited mobile station when the location-limited mobile station originated a call;

an area comparison means for comparing the registered areas of the location-limited mobile station searched by the registered area search means with present location areas of the location-limited mobile station and thereby judging whether or not a match occurred between the registered areas and the present location areas; and

a connection establishment means for executing a connection establishment process for the location-limited mobile station if a match occurred in the judgment by the area comparison means.—

Cancel claim 3.

Amend claim 4 as follows:

--4. (amended) A mobile radio communication system in which location-limited mobile stations can be used, comprising:

a registered area storage means in which information concerning registered areas, which have been registered as areas where a location-limited mobile station is allowed to conduct communication, is stored with regard to each location-limited mobile station, where the registered areas of each location-



limited mobile station can be altered to alternative registered areas during a preset time period;

a present location area tracking means for keeping track of present location areas of a location-limited mobile station when the location-limited mobile station is conducting communication;

a registered area search means for referring to the registered area storage means and thereby searching for the registered areas of the location-limited mobile station;

an area comparison means for comparing the registered areas of the location-limited mobile station searched by the registered area search means with the present location areas of the location-limited mobile station tracked by the present location area tracking means and thereby judging whether or not a match occurred between the registered areas and the present location areas; and

a disconnection means for disconnecting the communication conducted by the location-limited mobile station if no match occurred in the judgment by the area comparison means.—

Cancel claim 6.

Amend claim 7 as follows:

--7. (amended) A mobile radio communication system in which location-limited mobile stations can be used, comprising:

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a registered area storage means in which information concerning registered areas, which have been registered as areas where a location-limited mobile station is allowed to receive an incoming call, is stored with regard to each location-limited mobile station, where the registered areas of each location-limited mobile station can be altered to alternative registered areas during a preset time period;

a registered area search means for referring to the registered area storage means and thereby searching for the registered areas of a location-limited mobile station when an incoming call to the location-limited mobile station occurred;

an area comparison means for comparing the registered areas of the location-limited mobile station searched by the registered area search means with present location areas of the location-limited mobile station and thereby judging whether or not a match occurred between the registered areas and the present location areas; and

a connection establishment means for executing a connection establishment process for the location-limited mobile station if a match occurred in the judgment by the area comparison means.—

Cancel claim 9.

Amend claim 10 as follows:

--10. (amended) A mobile radio communication system in which location-limited mobile stations can be used, comprising:

a registered area storage means in which information concerning registered areas, which have been registered as areas where a location-limited mobile station is allowed to receive an incoming call, is stored with regard to each location-limited mobile station, where the registered areas of each location-limited mobile station can be altered to alternative registered areas during a preset time period;

a registered area search means for referring to the registered area storage means and thereby searching for the registered areas of a location-limited mobile station when an incoming call to the location-limited mobile station occurred;

a paging means for letting base transceiver stations corresponding to the registered areas page the location-limited mobile station in the registered areas; and

a connection establishment means for executing a connection establishment process for the location-limited mobile station if the location-limited mobile station made a response to the paging.—

Cancel claim 12.

Amend claim 13 as follows:

--13. (amended) A mobile radio communication system in which location-limited mobile stations can be used, comprising:

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a registered area storage means in which information concerning registered areas, which have been registered as areas where a location-limited mobile station is allowed to receive an incoming call, is stored with regard to each location-limited mobile station, where the registered areas of each location-limited mobile station can be altered to alternative registered areas during a preset time period;

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a paging means for letting base transceiver stations page a location-limited mobile station when an incoming call to the location-limited mobile station occurred;

a registered area search means for referring to the registered area storage means and thereby searching for the registered areas of the location-limited mobile station; and

a connection establishment means for executing a connection establishment process for the location-limited mobile station if the location-limited mobile station made a response to the paging from its registered areas.—

Cancel claim 15.

Amend claim 16 as follows:

--16. (amended) A mobile radio communication method for a mobile radio communication system in which location-limited mobile stations can be used, comprising the steps of:

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a registered area search step in which a registered area storage means, in which information concerning registered

areas which have been registered as areas where a locationlimited mobile station is allowed to originate a call is stored with regard to each location-limited mobile station, is referred to and thereby the registered areas of a location-limited mobile station is searched for when the location-limited mobile station originated a call;

an area altering step in which the registered areas of each location-limited mobile station are altered to alternative registered areas during a preset time period;

an area comparison step in which the registered areas of the location-limited mobile station searched in the registered area search step are compared with present location areas of the location-limited mobile station and thereby whether or not a match occurred between the registered areas and the present location areas is judged; and

a connection establishment step in which a connection establishment process is executed for the location-limited mobile station if a match occurred in the area comparison step.--

Cancel claim 18.

Amend claim 19 as follows:

--19. (amended) A mobile radio communication method for a mobile radio communication system in which location-limited mobile stations can be used, comprising the steps of:

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a present location area tracking step in which present location areas of a location-limited mobile station are kept track of when the location-limited mobile station is conducting communication;

a registered area search step in which a registered area storage means, in which information concerning registered areas which have been registered as areas where a location-limited mobile station is allowed to conduct communication is stored with regard to each location-limited mobile station, is referred to and thereby the registered areas of the location-limited mobile station is searched for:

an area altering step in which the registered areas of each location-limited mobile station are altered to alternative registered areas during a preset time period;

an area comparison step in which the registered areas of the location-limited mobile station searched in the registered area search step are compared with present location areas of the location-limited mobile station tracked in the present location area tracking step and thereby whether or not a match occurred between the registered areas and the present location areas is judged; and

a disconnection step in which the communication conducted by the location-limited mobile station is disconnected if no match occurred in the area comparison step.--

Cancel claim 21.

Amend claim 22 as follows:

a mobile radio communication method for a mobile radio communication system in which location-limited mobile stations can be used comprising the steps of:

a registered area search step in which a registered area storage means, in which information concerning registered areas which have been registered as areas where a location-limited mobile station is allowed to receive an incoming call is stored with regard to each location-limited mobile station, is referred to and thereby the registered areas of a location-limited mobile station is searched for when an incoming call to the location-limited mobile station occurred;

an area altering step in which the registered areas of each location-limited mobile station are altered to alternative registered areas during a preset time period;

an area comparison step in which the registered areas of the location-limited mobile station searched in the registered area search step are compared with present location areas of the location-limited mobile station and thereby whether or not a match occurred between the registered areas and the present location areas is judged; and

a connection establishment step in which a connection establishment process is executed for the location-limited mobile station if a match occurred in the area comparison step.—

Cancel claim 24.

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Amend claim 25 as follows:

--25. (amended) A mobile radio communication method for a mobile radio communication system in which location-limited mobile stations can be used, comprising the steps of:

a registered area search step in which a registered area storage means, in which information concerning registered areas which have been registered as areas where a location-limited mobile station is allowed to receive an incoming call is stored with regard to each location-limited mobile station, is referred to and thereby the registered areas of a location-limited mobile station is searched for when an incoming call to the location-limited mobile station occurred;

an area altering step in which the registered areas of each location-limited mobile station are altered to alternative registered areas during a preset time period;

a paging step in which the location-limited mobile station is paged in the registered areas; and

a connection establishment step in which a connection establishment process is executed for the location-limited mobile station if the location-limited mobile station made a response to the paging.—

Cancel claim 27.

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Amend claim 28 as follows:

--28. (amended) A mobile radio communication method for a mobile radio communication system in which location-limited mobile stations can be used, comprising the steps of:

a paging step in which a location-limited mobile station is paged when an incoming call to the location-limited mobile station occurred;

a registered area search step in which a registered area storage means, in which information concerning registered areas which have been registered as areas where a location-limited mobile station is allowed to receive an incoming call is stored with regard to each location-limited mobile station, is referred to and thereby the registered areas of the location-limited mobile station is searched for;

an area altering step in which the registered areas of each location-limited mobile station are altered to alternative registered areas during a preset time period; and

a connection establishment step in which a connection establishment process is executed for the location-limited mobile station if the location-limited mobile station made a response to the paging from its registered areas.—

Cancel claim 30.

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Amend claim 31 as follows:

--31. (amended) A machine-readable record medium storing a program for instructing a machine, a computer unit, etc. to execute a mobile radio communication method for a mobile radio communication system in which location-limited mobile stations can be used, wherein the mobile radio communication method comprises the steps of:

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a registered area search step in which a registered area storage means, in which information concerning registered areas which have been registered as areas where a location-limited mobile station is allowed to originate a call is stored with regard to each location-limited mobile station, is referred to and thereby the registered areas of a location-limited mobile station is searched for when the location-limited mobile station originated a call;

an area altering step in which the registered areas of each location-limited mobile station are altered to alternative registered areas during a preset time period;

an area comparison step in which the registered areas of the location-limited mobile station searched in the registered area search step are compared with present location areas of the location-limited mobile station and thereby whether or not a match occurred between the registered areas and the present location areas is judged; and

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a connection establishment step in which a connection establishment process is executed for the location-limited mobile station if a match occurred in the area comparison step.—

Cancel claim 33.

Amend claim 34 as follows:

--34. (amended) A machine-readable record medium storing a program for instructing a machine, a computer unit, etc. to execute a mobile radio communication method for a mobile radio communication system in which location-limited mobile stations can be used, wherein the mobile radio communication method comprises the steps of:

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a present location area tracking step in which present location areas of a location-limited mobile station are kept track of when the location-limited mobile station is conducting communication;

a registered area search step in which a registered area storage means, in which information concerning registered areas which have been registered as areas where a location-limited mobile station is allowed to conduct communication is stored with regard to each location-limited mobile station, is referred to and thereby the registered areas of the location-limited mobile station is searched for;

an area altering step in which the registered areas of each location-limited mobile station are altered to alternative registered areas during a preset time period;

an area comparison step in which the registered areas of the location-limited mobile station searched in the registered area search step are compared with present location areas of the location-limited mobile station tracked in the present location area tracking step and thereby whether or not a match occurred between the registered areas and the present location areas is judged; and

a disconnection step in which the communication conducted by the location-limited mobile station is disconnected if no match occurred in the area comparison step.—

Cancel claim 36.

Amend claim 37 as follows:

--37. (amended) A machine-readable record medium storing a program for instructing a machine, a computer unit, etc. to execute a mobile radio communication method for a mobile radio communication system in which location-limited mobile stations can be used, wherein the mobile radio communication method comprises the steps of:

a registered area search step in which a registered area storage means, in which information concerning registered areas which have been registered as areas where a location-

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limited mobile station is allowed to receive an incoming call is stored with regard to each location-limited mobile station, is referred to and thereby the registered areas of a location-limited mobile station is searched for when an incoming call to the location-limited mobile station occurred;

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an area altering step in which the registered areas of each location-limited mobile station are altered to alternative registered areas during a preset time period;

an area comparison step in which the registered areas of the location-limited mobile station searched in the registered area search step are compared with present location areas of the location-limited mobile station and thereby whether or not a match occurred between the registered areas and the present location areas is judged; and

a connection establishment step in which a connection establishment process is executed for the location-limited mobile station if a match occurred in the area comparison step.—

Cancel claim 39.

Amend claim 40 as follows:

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--40. (amended) A machine-readable record medium storing a program for instructing a machine, a computer unit, etc. to execute a mobile radio communication method for a mobile radio communication system in which location-limited mobile

stations can be used, wherein the mobile radio communication method comprises the steps of:

a registered area search step in which a registered area storage means, in which information concerning registered areas which have been registered as areas where a location-limited mobile station is allowed to receive an incoming call is stored with regard to each location-limited mobile station, is referred to and thereby the registered areas of a location-limited mobile station is searched for when an incoming call to the location-limited mobile station occurred;

an area altering step in which the registered areas of each location-limited mobile station are altered to alternative registered areas during a preset time period;

a paging step in which the location-limited mobile station is paged in the registered areas; and

a connection establishment step in which a connection establishment process is executed for the location-limited mobile station if the location-limited mobile station made a response to the paging.—

Cancel claim 42.

Amend claim 43 as follows:

--43. (amended) A machine-readable record medium storing a program for instructing a machine, a computer unit, etc. to execute a mobile radio communication method for a mobile

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radio communication system in which location-limited mobile stations can be used, wherein the mobile radio communication method comprises the steps of:

a paging step in which a location-limited mobile station is paged when an incoming call to the location-limited mobile station occurred;

Sub Sub a registered area search step in which a registered area storage means, in which information concerning registered areas which have been registered as areas where a location-limited mobile station is allowed to receive an incoming call is stored with regard to each location-limited mobile station, is referred to and thereby the registered areas of the location-limited mobile station is searched for;

an area altering step in which the registered areas of each location-limited mobile station are altered to alternative registered areas during a preset time period; and

a connection establishment step in which a connection establishment process is executed for the location-limited mobile station if the location-limited mobile station made a response to the paging from its registered areas.—

Cancel claim 45.

REMARKS

The independent claims were rejected as anticipated by NGUYEN (WO 99/03293) and the dependent claims were rejected as unpatentable over NGUYEN in view of YI et al. 5,946,632. The

independent claims have been amended and reconsideration and withdrawal of the rejections are respectfully requested.

The amended independent claims provide, among other features, that the registered area storage means or step allows the registered area of each location-limited mobile station to be altered to alternative registration areas during a preset time period. This is shown, by way of example, in Figure 12 under the right-hand column in which alternative registered areas are used during the period May 1-20.

The Official Action acknowledges that NGUYEN does not disclose this feature and relies on YI et al. for the suggestion to modify NGUYEN to allow the registered areas of each location-limited mobile station to be altered to alternative registered areas during a preset time period.

However, the Official Action does not refer to a "preset" period, rather it refers to a "present" period. The Official Action refers to column 1, lines 60-62 for the suggestion to change the registered areas of the location-limited mobile stations during a "present" period. Specifically, this portion of YI et al. notes that when the controller database is altered, the radio database is updated to match the altered controller database. In other words, this refers to an alternative registered area during a "present" period, not during a "preset" period. There is no suggestion in either reference to change the registered areas to alternative registered areas

during a preset time period as is now claimed in the independent claims. Accordingly, it is believed that the amended claims avoid the rejections of record.

In view of the present amendment and the foregoing remarks, it is believed that the present application has been placed in condition for allowance. Reconsideration and allowance are respectfully requested.

Attached hereto is a marked-up version showing the changes made to the claims. The attached page is captioned "VERSION WITH MARKINGS TO SHOW CHANGES MADE."

Respectfully submitted,

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Вv

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